



PATENT  
P56598

2853  
14/IDS  
P. Waller  
6-5-03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

MOO-YOUL KIM *et al.*

Serial No.: 09/971,763

Examiner: BROOKE, MICHAEL S

Filed: 9 October 2001

Art Unit: 2853

For: INKJET PRINTHEAD

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**INFORMATION DISCLOSURE STATEMENT**

**Mail Stop Non-Fee Issue Fee**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.56, and §§ 1.97 and 1.98, applicant cites, provides copies, lists and briefly discusses the following art references newly cited by the Korean Intellectual Property Office in a *Notice to Submit Response* issued in co-pending Korean priority application No. 10-2000-0058758 dated on the 17<sup>th</sup> of May 2003.

**Japanese PATENT REFERENCE:**

<b><u>Publication No.</u></b>	<b><u>Inventor</u></b>	<b><u>Published Date</u></b>
• JP 5-116304	Nakajima <i>et al.</i>	15 January 2001

"Ink Jet Record Head, Ink Jet Recording method and Ink Jet Recording Device"  
and English language Abstract for JP 5-116304.

- ✓JP 59-207262                      Camis *et al.*                      7 November 1984  
    "Resistor structures for thermal ink jet printers"  
    and English language Abstract for JP 59-207262.
- ✓JP 11-020161                      Segawa *et al.*                      26 January 1999  
    "Printer Head And Manufacture Thereof"  
    and English language Abstract for JP 11-020161.
- ✓JP 10-128977                      Weber                      29 April 1998  
    "Method And Apparatus For Ink Chamber Evacuation"  
    and English language Abstract for JP JP 10-128977.
- ✓JP 09-48121                      Fujiyama *et al.*                      18 February 1997  
    "Printing Head"  
    and English language Abstract for JP 09-48121

**OTHER DOCUMENTS:**

- English language translation of Korean Industrial Property Office *Notice to Submit Response*  
Issued by the Korean Industrial Property Office in Applicant's corresponding Korean priority  
application No. 10-2000-0058758 on the 17<sup>th</sup> May 2003 English translation is herewith.

**DISCUSSION**

As explained in the *Notice to Submit Response* issued by the Korean Intellectual Property  
Office on the 17<sup>th</sup> of May 2003 in Applicant's corresponding patent Korean priority application No.

10-2000-0058758, the Korean Examiner stated that the Nakajima JP laid-open patent hei No. 5-116304 issued on the 14<sup>th</sup> of May 1993, discloses an inkjet head. The Examiner also asserted that the "inkjet head includes an ink tub for providing an ink, an ejecting hole for ejecting ink droplets, a passage connecting the ink tub and the ejecting hole, and a heater forming a bubble. More than one groove is formed on the inside wall of the passage."

The Camis JP '262 patent was cited by the Korean patent Examiner as describing the structure defined in claim 1 as Applicant's Korean priority application '365. The Korean Examiner asserted that Camis JP '262 "discloses an ink-jet head comprising two resisting elements and nozzle holes existing between the two resisting elements, wherein ink is supplied from both sides of each nozzle hole."

Segawa JP '161 contemplates a printer head providing a container for ink, a head board containing orifices for jetting ink, disposed contiguously to the ink container and counter electrodes that urge ink to pass through the orifice holes. A circuit for driving the counter electrodes is integrally formed with a head board.

Weber JP '977, which corresponds to U.S. Serial No. 07/38516, contemplates a print head with the chamber, a member that defines an orifice and a fluid inlet through which fluid flows to the chamber. A heating member disposed to heating fluid within the chamber to enable the chamber to eject a fluid droplet that has a volume equal to the volume of the chamber.

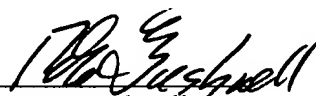
Fujiyama JP '121 contemplates a plurality of heating elements that are arranged on one surface of an insulting substrate, with a pressure container having the heating elements provided on its inner wall surface, holding a definite amount of ink and having an ink emitting nozzle formed as

a through-hole at the position opposite to the heating element.

The citation of forgoing references is not tended to constitute representation to the Examiner that a search of the prior art has been made by the Applicant. Accordingly, the U.S. Examiner is requested to make a thorough and wide-ranging search of the prior art during the examination.

Pursuant to 37 C.F.R. § 1.97(e), the undersigned attorney hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than (3) months prior to the filing of the statement. Accordingly, no fee is incurred by this Statement.

Respectfully submitted,



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Folio: P56598  
Date: 30 May 2003  
I.D.: REB/asc